

UNCLASSIFIED

AD 407 998

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

NARRATIVE PROGRESS REPORT FOR THE MONTH OF
MAY 1963

AF 04(647)-463

TITAN II, TF-II
GENERAL PROGRESS

ECP 2005 - Provision of Console Access to RTMN 2, 3, 4, and 5 at TF-II

Engineering surveillance of the TF-II multinet installation continues. No major engineering problems have been encountered. Spare parts on order are pending DCN and FSN action by the Air Force.

Hardeman Propellant Conditioning Trailer RTMN Antenna

No further activity pending results of tests at TF-II utilizing the RTMN Operational Above-Ground Antenna Configuration.

ECP 2007 - Operational Base Communications Panel Modification for Intercomplex Radio

ICNP 61100-1 Launch Complex to Intercomplex Communication System Interface Package is still pending BSD/STL approval. This document was submitted 1 April 1963.

ECP 2008 - LES Secure Cabinet Modification for Fault Locator (MGE) Adaptation

A trip to Sheppard Air Force Base was conducted for the purpose of verifying the conversion instructions which serve as the basis for the TCTO implementing ECP 2008. ECP 2008R1, which corrects spare part effectivity, has been prepared and is to be submitted during the next reporting period.

Parts for the modification kits were ordered and accumulated during this reporting period. Effort was concentrated on further definition of the requirements

including revisions required in the category of fuses, additional component card assemblies and nameplates.

Final conversion of the LES Trainer Equipment at Sheppard Air Force Base was completed by Stromberg-Carlson Engineers prior to testing the first production models of the LES Fault Locator.

ECP 2009 - NMFPA/VAFB, 4-Wire Circuit Interface

Kit shipment has been accomplished and maintenance manuals are scheduled for shipment during the next reporting period. Spares modification kit assembly is awaiting Air Force action.

ECP 2011 - Division Command Post Communications Circuit Changes

All requirements have been completed except maintenance manuals which are scheduled for completion next reporting period.

ECP 2012 - Loneliness and Timeout Circuit Modification

This change has been completed except maintenance manuals which are due to be completed next reporting period.

ECP 2014 - Modification of Lamp Test Circuit Modification

The change has been completed except for finalized technical manuals which are scheduled for completion 14 June 1963.

ECP 2018R1 - Wire to Radio Transfer Circuit

This change was submitted to the CCB 29 May 1963, and is pending approval.

MGE 6025.1 Test Set, Circuit Plate

The six (6) circuit plate test sets were shipped on schedule (15 May 1963) with

the required program boards including a board for the circuit changes covered in ECP 2011.

MGE 6032.2 LES Test Set, Launch Complex; MGE 6032.3 LES Test Set, WCP and ACP; MGE 6032.4 LES Character Code Generator

The first production units completed final assembly, inspection and test early in May to enable production unit testing at the Air Training Command, Sheppard Air Force Base, Texas, 6-14 May 1963. Stromberg-Carlson Operational Support personnel were also present at ATC to conduct verification of technical manuals. Full-scale fabrication, assembly, inspection and testing of additional units is underway and end item delivery, according to schedule, is anticipated.

INTERFACE DRAWING PACKAGES

IDP IC-2-07010400 - Clothing Outfit Toxic Gas Protective to Communication System Equipment

Planned Air Force Interface Tests on this equipment are still pending AF/STL action.

MISCELLANEOUS

Post Turnkey Floor Plans

A meeting was held with Martin-Marietta Corporation representatives at Stromberg-Carlson, El Segundo, to define all discrepancies in the Pre and Post Turnkey Control Center Layout Drawings for Titan I and Titan II and to establish the appropriate action required to make corrections. As a result of this meeting MMC has updated the CCB approved floor plans to incorporate all communication system changes in the last six months. These drawings were reviewed by Stromberg-Carlson and found to be technically accurate.

MGE Human Engineering Evaluation

Human Engineering Evaluation Reports for all items of MGE are being prepared for submission during the latter part of the next reporting period.

OPERATIONAL SUPPORT

TECHNICAL PUBLICATIONS

Titan II Preliminary T.O. 21-SM68B-2-17 (Communications System VAFB)

Change pages, incorporating maintenance information and the radio multi-network equipment were completed and released to Publications Production. Distribution of this change is anticipated in the next reporting period. Request for access to the sites to continue the verification effort is also anticipated upon distribution of this change.

Titan II Preliminary T.O. 21-SM68B-2-18 (Communications System, Operational Bases)

A change incorporating an expanded description of the interlocation circuits was begun during this reporting period. Release of the change is anticipated in the next reporting period. No verification activity was accomplished on this technical order during this reporting period.

Titan II Field Maintenance/IPB T.O. 31X1-1-12-12 (VSS) and T.O. 31X1-1-5-2 (Power and Supervisory Equipment)

Reprints of these manuals (250 copies each) were prepared in response to BSD request. The reprints were forwarded to ROAMA as backup stock.

Titan II Field Maintenance/IPB T.O. 31X1-2-1-192 (Wire Control and Transmission Equipment)

A complete reissue of this manual comprising over 600 pages was completed and distributed on 15 May 1963. The reissue contained instructions for using

the circuit plate test set and the related fault decoding charts for the circuit plate assemblies. This reissue was delivered concurrently with delivery of the test equipment.

Titan II Field Maintenance IPB T.O. 31X1-4-1-112 (Telephones, Headset-Microphones, and Telephone Connecting Stations)

Change pages, incorporating instructions for using the circuit plate test set to test the headset-microphone assemblies, were completed and distributed on 15 May 1963. This change was delivered concurrently with delivery of the test equipment.

Titan II EB Trainer T.O. 43D2-4-19-1

Change pages, incorporating circuit plate test set fault decoding charts for trainer-peculiar circuit plates, were completed and delivered on 15 May 1963, concurrently with delivery of the test equipment.

Titan II Preliminary T.O. 31X1-2-1-182 (LES)

Change pages, incorporating the modification authorized by ECP #2008, 2012, and 2014, and information for using the fault locator (MGE 6032), were completed and released for printing. Delivery of the change pages is anticipated early in the next reporting period to assure arrival in the field at the same time as the fault locator equipment. It is noted, however, that the fault locator cannot be used with the operational LES equipment before the ECP 2008 modification is accomplished. (Shipment of the first modification kits is scheduled for 26 June 1963.)

Titan II EA Trainer T.O. 43D2-4-22-1

Change pages, incorporating the modification of the trainer to accommodate the

LES Fault Locator and use information for the fault locator, were completed and released for printing. Delivery of the change pages is anticipated early in the next reporting period. Operational Support personnel participated with engineering personnel in validating the fault analysis procedures for use in this technical order, T.O. 31X1-2-1-182, and the new operation and maintenance technical order being prepared for the fault locator equipment.

Titan II T.O. 31X1-2-1-184 (LES IPB)

Change pages incorporating the modifications authorized by ECP #2008, 2012, and 2014 were completed and released to Publications Production. Delivery is anticipated concurrently with shipment of the ECP 2008 Modification Kits during the next reporting period.

Titan II T.O. 33A1-3-215-2 (Circuit Plate Test Set)

The writing and parts listing effort was completed and released to Publications Production. An Air Force in-process review was confirmed for 3 June 1963, and delivery of the T.O. is anticipated on schedule during the next reporting period.

Titan II T.O. 31X-1-512 (ECP 2008 Modification)

The writing effort on this project was completed and the manuscript was released for production. Release is scheduled for 12 June 1963, allowing sufficient time to package the TCTO with the modification kits without jeopardizing kit delivery schedules.

Titan II CTOCU-TOCU Activity

Stromberg-Carlson personnel attended a joint CTOCU-TOCU meeting in Denver during this reporting period. Activity at the operational bases consisted of con-

tinued monitoring of the communications equipment demonstrations in accordance with AEP 16. No changes in Stromberg-Carlson technical orders were originated during the demonstration.

Titan II Weapon System Manual (Integrated T.O. 21-SM68B-1)

The revised input to this integrated technical order was completed and released for production during this reporting period. Delivery, however, was not possible because of the concentrated effort on MGE use information in related technical orders. Transmittal of the integrated material to MMC will be accomplished in the next reporting period.

PERSONNEL SUBSYSTEMS

Personnel subsystem activities were concentrated on completing and distributing the updated 60-50A Data Package. Volumes 2, 3 and 4 were distributed early in the reporting period. IBM cards, containing the 60-50A Data, were also completed and forwarded to the integrating contractor, thereby finalizing this input. A reanalysis of 60-50A, incorporating approved ECP changes, references to technical orders, and nomenclature consistent with provisioning documentation was begun.

Figure A's 6063, 6064, and 6065, reflecting tools required in support of MGE (6025 and 6033) were approved by BSD and submitted for necessary procurement action.

A revision to the Training Equipment List, incorporating the changes authorized by ECP #2008, was completed and submitted.

TITAN II PROGRAM TF-II, T-6, T-7 and T-8			PRESENT												1961												1962												1963																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
CHANGE	ITEM NO.	PROGRAM MILESTONES	SCHEDULE DATE		P	1961												1962												1963																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			DAY	MO. YR.		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S

TITAN II		ITEM NO.	PROGRAM MILESTONES	PRESENT SCHEDULE DATE		1962												1963												1964																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CHANGE	NO.			DAY	MO.	YR.	P	R	I	O	R	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M

